

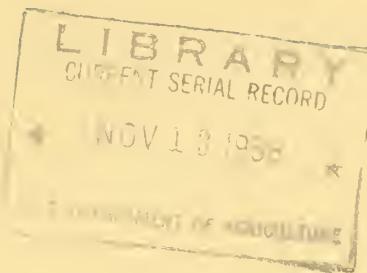
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FEDERAL-GRANT RESEARCH

at the

STATE AGRICULTURAL
EXPERIMENT STATIONS

Projects on

CLOTHING AND TEXTILES

Part 13, Section c

Agricultural Research Service
UNITED STATES DEPARTMENT OF AGRICULTURE

Compiled August 1958 by

The State Experiment Stations Division, Agricultural Research Service, U. S. Department of Agriculture, Washington 25, D. C., for use of workers in agricultural research in the subject-matter areas presented. For information on specific research projects write to the Director of the Station where the research is being conducted.

Issued October 1958

FEDERAL-GRANT RESEARCH
at the
STATE AGRICULTURAL EXPERIMENT STATIONS
Projects on
HOME ECONOMICS
Section c: Clothing and Textiles
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INTRODUCTION

This compilation is one of a series providing information on State agricultural experiment station research supported by Federal-grant funds appropriated annually by Congress under authorization of the Hatch Act of 1887, as amended and approved August 11, 1955, and Section 204(b) of the Agricultural Marketing Act of 1946. It is prepared for use by research workers in the subject-matter areas presented. Only that part of each State's research program supported by Federal-grant moneys is included.

In addition to the Federal-grant moneys, the State experiment stations receive some Federal support through cooperative agreements or contracts with the U. S. Department of Agriculture. Information on such research, along with other departmental research, is available in the Central Project Office, Agricultural Research Service.

A substantial part of each State agricultural experiment station's research is supported with moneys appropriated by the respective State or Territorial Legislatures and through other forms of private and public financing. Information on current agricultural research at the stations which is not financed under the Federal-grant program or through USDA cooperation can be obtained from experiment station directors.

The information given in the series of Federal-grant compilations includes the title and objectives of each Federal-grant project pertaining to the subject given on the cover. The identification of each project gives the department(s) conducting the research, the station number of the project, and the number of the regional project if it is a contributing project.

Relevant regional projects, if any, appear at the end of the compilation. States having projects contributing to regional projects are indicated. The Roman numeral refers to the location in the summary of the contributing project title and objectives. The States are grouped into four major regions. These are designated NC-North Central, NE-Northeastern, S-Southern, and W-Western. The capital letter "M" following the letters for the region indicates regional marketing projects.

CONSUMER SATISFACTIONS IN RELATION TO SELECTION AND USE PRACTICES

Storrs
(Conn.) Consumer Practices of Older Persons in Selection, Use, and Care of Clothing. To determine (1) relationship of clothing characteristics such as fabric, design, color, and construction, to requirements of, and satisfaction received by, older adults; (2) consumer practices in selection, use, and care of clothing by older adults; (3) relative importance, for older age group, of comfort, fit, appearance, price and ease of care.

Home Econ. 275 (NE-19)

Ill. The Comfort of Clothing of Varying Fiber Content.
To (1) determine relative comfort of nylon and cotton clothing for subjects under different conditions of temperature and humidity; and (2) find if a humidity of 60 percent at 76° F. is acceptable air conditioning for personal comfort.

Home Econ., Agr. Eng. 60-382

Ill. Study of Consumption Patterns for Children's Clothing.
To (1) make a survey of selected clothing purchased and worn by children 6-10 years of age, both boys and girls; (2) determine any consumption patterns common to such purchases; (3) determine factors which influence purchase of special textile products; and (4) determine family opinion of factors which result in satisfactions or dissatisfactions with these products.

Home Econ. 60-383 (NC-24)

Iowa Family Practices in the Selection and Use of Garments for Boys Nine and Ten Years of Age. To (1) determine family practices and reasons for selection and use of boys' jeans, slacks and shirts; (2) determine satisfactions and dissatisfaction as expressed by the boys and by their mothers as to jeans, slacks, and shirts selected; and (3) provide data for selection of jeans, slacks, and shirts as a guide to decision making in relation to family clothing budget.

Home Econ. 1286 (NC-24)

Mich. Family Practices in the Purchase and Use of Certain Items of Apparel for Girls Six to Twelve Years of Age.
To provide information that would (1) help the homemaker spend money wisely; and (2) help production and marketing agencies to assess consumer preferences and demand for apparel for girls 6 to 12 years.

Home Econ. 487 (NC-24)

Miss.

Practices and Preferences of Teen-Aged Girls in the Selection of Specified Outer Garments. To determine (1) kinds, amounts, and use of selected outer garments owned by teen-age girls by main occupation of parental family, race, social participation and related factors; (2) preferences for fibers and/or materials in selected outer garments; and (3) marketing factors affecting type and kind of garments owned.

Home Econ. HJ-7

N. Y.

(Cornell) Qualities in Blouses and Factors in Their Selection Which Lead to Satisfaction. To (1) observe buying practices at point of sale and compare actual purchase with an ideal which consumer would have bought if possible; (2) make intensive wear and laboratory study of typical blouses purchased by consumers; and (3) determine satisfactions and dissatisfactions with garments; and relate these to qualities in garments, to buying practices, and to care of garments.

Textiles & Clothing 159 (NE-19)

Ohio

A Technique for Studying Factors Which Influence the Selection or Choice of Slacks and Jeans and/or Other Specified Ready-to-Wear Garments for Children. To (1) determine buying practices followed in purchase of ready-to-wear outer garments for children ages 6-9; (2) develop and appraise techniques used for determining factors which influence selection of slacks and jeans for girls and boys 6-9; and (3) compare expressed preferences and actual practices of mothers in selecting these items.

Home Econ. 124 (NC-24)

Pa.

Factors in Garment Selection and Use That Influence Consumer Satisfactions. To (1) investigate interrelationships of: consumer satisfactions derived from garments; specific characteristics of garments; use and care of garments; consumer practices in buying garments; and certain socio-economic factors in patterns of living; and (2) attempt to improve methodology of studying these factors.

Home Econ. 1205 (NE-19)

Pa. Stability of Criteria Used by Consumers to Evaluate Agricultural and Non-Agricultural Fibers in Outer Clothing. To (1) analyze influence of time on stability of criteria used in evaluating fibers; (2) identify differences in criteria for various strata of society; (3) learn rank order of criteria used to evaluate textiles for different situations; (4) learn image which consumers have of certain fibers in terms of fulfilling these criteria; (5) analyze stability of these images over time; and (6) discover effect of experience with certain fibers on criteria of selection and stability of image of fiber.

Agr. Econ. and Rur. Sociol. 1275-A

R. I. Consumer Satisfaction with Selected Garments. To (1) determine relation between attributes of satisfaction associated with three types of garments, to be selected, and those associated with women's blouses, previously studied; (2) study satisfaction attributes in relation to textiles and clothing used by persons in a wide range of ages; (3) extend study of satisfaction attributes to men's clothing in addition to women's clothing; and (4) analyze fabric and construction features of garments used in laboratory-wear study in relation to satisfaction attributes found in field study.

Home Econ. 453 (NE-19)

Tex. Labeling of Women's Street Dresses to Meet Consumers' Needs and Demand in the Retail Trade. To (1) learn present practices of labeling women's street dresses when piece goods is received by dress factory, as it leaves factory, in the retail store, and when it reaches consumer; (2) determine what the consumer wants on labels; (3) determine adequacy of labels in providing information consumer needs and wants; and (4) formulate recommendations for labeling practices.

Home Econ. 1067

W. Va. Qualities in Blouses: The Relations of Those Considered in Selection to the Satisfactions Found in Wear. To (1) determine specific qualities consumer-buyers consider in selecting blouses; (2) determine relationships between buying practices, qualities desired in blouses, care given, price paid, and satisfactions or dissatisfactions from individual blouses; and (3) analyze fabric and construction characteristics of blouses similar to those most often bought as determined by checking purchases at point of retail sale.

Home Econ. 77 (NE-19)

SERVICEABILITY OF FABRICS AND GARMENTS

Kans.

The Characteristics and Serviceability of Boys' T-Shirts and the Fabrics of Which They Are Made.

To determine (1) characteristics of construction selected for study and relationship to serviceability; (2) characteristics of fabrics and yarns used in shirts and their relationship to serviceability; and (3) wear and laundering effect on fabrics and shirts.

Home Econ. 399 (NC-24)

Kans.

Evaluation of the Service Qualities of Selected Suiting Fabrics. To study (1) wearing qualities of selected suiting fabrics woven from 100 percent wool and blends of wool and man-made fibers as indicated by tearing strength and resistance to abrasion; and (2) effect of abrasion on appearance of fabrics.

Home Econ. 442

Kans.

The Service Qualities of Sheer Curtain Fabrics Exposed to Light. To compare effects of light upon breaking strength and elongation of fabrics after exposure to Fade-Ometer, and to natural light through glass; (2) determine dimensional stability and colorfastness; and (3) evaluate Fade-Ometer as laboratory means of predicting serviceability of fabrics.

Home Econ. 443

Minn.

Criteria of Serviceability for Fabrics and Garments.

To determine (1) characteristics and serviceability of construction used in types of garments selected for study; (2) characteristics and serviceability of fabrics selected for study; and (3) effect of wear and laundering on fabrics and garments studied.

Home Econ. 2013 (NC-24)

Mo.

The Consumption, Characteristics and Serviceability of Textile Products in Children's Clothing. To determine (1) varieties of children's garments most frequently found satisfactory; reasons for dissatisfactions in children's clothing and end-use of children's garments discarded because of dissatisfactions; (2) characteristics and serviceability of cotton fabrics found in ready to wear cotton flannel shirts and yard goods; (3) characteristics of construction in garments studied; and (4) effects of wear and maintenance of fabrics and garments selected.

Home Econ. 162 (NC-24)

S. Dak.

Measure of Serviceability for Fabrics and Garments.

To determine (1) characteristics and serviceability of construction used in types of garments selected for study; (2) characteristics and serviceability of fabrics selected for study; and (3) effects of wear and laundering on fabrics and garments studied.

Home Econ. 259 (NC-24)

FIBER PROPERTIES AND FABRIC CHARACTERISTICS

Ala.

Reliability of Certain Laboratory Tests for Predicting

In-Use Performance of Cotton Sheets Made from Cottons

Differing in Fiber Elongation. To (1) determine in-use performance of cotton sheets made from cottons differing in fiber elongation, and (2) evaluate abrasion and other tests as means of predicting in-use performance of sheets.

Home Econ. 584 (SM-18)

Ia.

Factors Which Affect Cotton Fiber Quality. To determine

(1) fiber length, length uniformity, fineness and strength of fibers of varieties and advanced strains; (2) effects of different methods of harvesting cotton on fiber length, length uniformity, fineness and strength of fibers; and (3) effect of certain insects, spider mide, and nematode infestations, upon fibers.

Home Econ. 895

Ia.

Selected Cotton Fiber Properties as Related to the

Quality of Sheetings. To (1) establish exact measurement of length and fineness properties of types of raw cotton, selected by strength-elongation, used in regional investigation and having as wide a range of elongation as possible; (2) make laboratory measurements of certain properties of the flat fabric processed from those types of raw cotton selected for the regional investigation; and (3) coordinate findings of objectives 1 and 2 with data from other segments of regional research.

Home Econ. 944 (SM-18)

Minn.

The Relative Characteristics and Ease of Care of

Shirting and Dress Fabrics Containing Combinations and

Blends of Fibers. To (1) measure characteristics relating to use and care of dress and shirting fabrics made of various blends of natural and/or chemically manufactured fibers; (2) relate characteristics to those of shirtings and dress fabrics composed entirely of fibers concerned; and (3) learn relation between fabrics made from a combination of two or more different kinds of yarns and fabrics composed of the same fibers but blended within the yarns.

Home Econ. 2017

Minn.

Blanket Qualities. To (1) evaluate characteristics of blankets composed of wool and those composed of chemically manufactured fibers and various blends; (2) determine the relationship among these characteristics as a basis for helping consumers buy wisely; and (3) determine effect of cleaning on properties of the blankets.

Home Econ. 2018

Mo.

Serviceability of Sheets Made from Cottons of Selected Fiber Properties. To (1) determine end product performance of sheets made of fibers with selected physical properties; and (2) correlate the findings with data obtained by other participants in fabric, yarn, and fiber phases of the regional investigation.

Home Econ. 319 (SM-18)

N. C.

Coordination of Specifications and Test Data Pertaining to Yarn and Fabric Processing of the Four Cottons Selected for Objective 6 of Regional Project SM-18. To (1) consult with research personnel and contractors for optimum yarn and fabric specifications; and (2) collect and compile all data from various steps in processing of yarn.

Home Econ. H-155 (SM-18)

Okla.

Performance of Sheets Made from Cottons of Selected Fiber Properties. To determine how breaking strength, stiffness, number of yarns per inch, wrinkle recovery, weight, abrasion and air permeability of sheets from selected cottons are affected by wear and laundering, (2) develop improved procedures for research on subject; and (3) correlate data from objective 1 with data obtained by other participants in fabric and fiber phases.

Home Econ. 1006 (SM-18)

Oreg.

Thermal Properties of Blankets of Different Fiber Contents. To (1) compare thermal properties of blankets of different fiber contents and blends: wool, cotton, rayon, nylon, Orlon and Acrilan; (2) investigate effects of special finishes as shrink-resistant finishes on thermal properties of blankets; (3) determine effects of laundering on thermal properties of blankets of different fiber compositions; and (4) determine changes in fabric properties associated with changes in thermal properties as a result of laundering.

Home Econ. 338

S. Dak. Blanket Qualities. To (1) evaluate characteristics of blankets composed of wool and those composed of chemically manufactured fibers and various blends; (2) determine relationships among these characteristics as a basis for helping consumer buy wisely; and (3) determine effect of cleaning on properties of the blankets.
Home Econ. 319

Tenn. The Effect of Selected Properties of Raw Cotton Upon Product Quality and Serviceability. To investigate (1) certain chemical properties of cotton fibers; and (2) relationship between certain physical properties of fibers (initially, elongation) and the fabric characteristics as strength, elongation, and wrinkle recovery.
Home Econ. 113 (SM-18)

Tenn. Theory of Textile Fabrics. To develop physical theories of yarn, cord and fabric structures that will reveal the functional relations of the physical properties of these structures to the physical properties of the constituent fiber and to the method of fabrication.
Physics 129

Tex. The Relationship Between Cotton Fiber Properties and Fabric Quality. To determine (1) selected fiber properties of each of four cottons to be service tested; (2) physical properties of fabrics made from each of four cottons; (3) ascertain relationship among various fiber and fabric properties for four cottons; and (4) correlate data from fiber and fabric properties with results of end-use portion of study.
Home Econ., Agr. Econ. and Sociol. 1132 (SM-18)

DYES AND FINISHES

Mo. Physical Properties of Cotton Fabrics Containing Crease Resistant Finishes. To (1) compare some physical properties of cotton fabrics of similar construction but varying finish; and (2) determine variability among the physical properties of cotton fabrics treated with crease resistant finishes.
Home Econ. 320 (NC-24)

Tex.

The Effect of Home-Applied Finishes on the Air Permeability, Absorption, Color Fastness and Storage of Cotton Fabrics. To (1) determine to what extent selected home applied finishes affect air permeability, water absorption and retention, color fastness to light and ageing in storage; (2) interpret findings of study with respect to preferences given by men who wore shirts with home-applied finishes; and (3) make recommendations concerning use of home-applied finishes with respect to comfort and serviceability.

Home Econ. 1074

Wis.

Appraisal of Methods for the Identification of Dyes and Special Finishes on Several Types of Textiles. To (1) standardize methods of dye analysis to be used in determining character of dyes used on selected fabrics and (2) appraise the several methods of the qualitative identification of functional finishes on various types of textiles.

Home Econ. 923 (NC-24)

REGIONAL PROJECTS

NC-24

The Consumption, Characteristics, and Serviceability of Textile Products. To determine the relationship among consumer satisfactions, practices in purchase, in maintenance, and in use, and the characteristics and serviceability of fabrics and garments.

Contributing projects: Ill. I, Iowa I, Kans. II, Mich. I., Minn. II, Mo. II and IV, Ohio I, S. Dak. II, Wis. IV.

NE-19

Consumer Satisfaction with Clothing as Related to Characteristics of the Garments and Consumer Practices in Selection, Use, and Care. To (1) determine the relationships between the satisfactions received from garments and (a) the characteristics of the garments and (b) the practices in their selection, use, and care; (2) determine the relationships among selected components of satisfaction and between these and overall satisfaction; (3) determine the relationships of (a) age, (b) sex, (c) socio-economic level, and (d) certain values and motivations of the individual to each of the above factors and to the inter-relationships; (4) improve ways of relating the laboratory-wear phases of the study to the field phases; and (5) develop basic principles concerning the characteristics of the garment and factors in selection and use that will predict consumer satisfaction with a garment.

Contributing projects: Storrs (Conn.) I, N.Y. (Cornell) I, Pa. I., R.I. I, W. Va. I, Coop ARS

SM-18

The Evaluation of the Use of Fiber Tests in the Marketing of Cotton and the Relation of Fiber Properties to End-Product Performance. To determine (1) the nature and extent of the use of measures of differences in fineness, strength, and other fiber properties in addition to grade and staple length at various stages in the marketing process for cotton; (2) the influence of these measurements on prices paid for cotton; (3) charges for, or estimated costs of tests; (4) basis for adequacy of criteria used by firms in relating fiber testing to the value of cotton; (5) the value of fiber testing in appraising cotton breeding and production programs designated to produce the qualities desired by consumers; and (6) the relation of selected properties of raw cotton to product quality and end-product performance.

Contributing projects: Ala. III, La. III, Mo. III, N.C. III, Okla. III, Tenn. III, Tex. III. (See also Ark., Ariz., Ga., La., Miss., N. Mex., Okla., S. C., Tenn., Tex., all II-D, ARS 23-8-14a) Coop AMS, ARS

LIST OF COMPILATIONS OF FEDERAL-GRANT RESEARCH PROJECTS
AT STATE AGRICULTURAL EXPERIMENT STATIONS

ARS-23-8:		:	
Part :	Subject-Matter Area	:	Title of Section
Numbers :		:	
1	Agricultural Chemistry		Agricultural Chemistry
2	Agricultural Economics	a.	Prices, Incomes, & General Studies of Commodities & Industries
		b.	Farm Management
		c.	Land Economics
		d.	Farm Finance & Taxation
3	Agricultural Engineering	a.	Land & Water Use & Development
		b.	Power Machinery & Equipment
		c.	Farm Structures & Materials
4	Animal Husbandry	a.	Beef Cattle
		b.	Sheep & Goats
		c.	Swine
5	Dairy Husbandry		Dairy Cattle
6	Dairy Technology		Dairy Technology
7	Entomology & Economic Zoology	a.	Field Crop Insects
		b.	Fruit, Nut & Vegetable Insects
		c.	Miscellaneous Insects & Economic Zoology
		d.	Insecticides
8	Field Crops	a.	Cereal Crops
		b.	Oil, Fiber, Tobacco & Sugar Crops
9	Food Science & Technology	a.	Food Chemistry, Microbiology, Sanitation & Public Health
		b.	Food Engineering, Processing, Product and Process Development, Utilization and Waste Disposal
		c.	Food Quality & Standards, Acceptance, Preference, & Marketing
10	Forage Crops, Pastures & Ranges		Forage Crops, Pastures & Ranges
11	Forestry		Forestry

<u>ARS-23-8:</u>	:	
Part :	Subject-Matter Area	: Title of Section
<u>Numbers :</u>	:	
12	Fruits & Nuts	Fruits & Nuts
13	Home Economics	<ul style="list-style-type: none"> a. Human Nutrition b. Housing c. Clothing & Textiles d. Foods-Consumer Quality & Utilization e. Household Economics & Management
14	Economics of Marketing	<ul style="list-style-type: none"> a. Field Crops b. Fruits & Vegetables c. Livestock, Meats & Wool d. Dairy Products e. Poultry & Poultry Products f. Forest Products & Ornamental & Drug Plants g. Cross-Commodity & Functional Studies
15	Meteorology	Meteorology
16	Ornamental & Drug Plants	Ornamental & Drug Plants
17	Plant Pathology & Bacteriology	<ul style="list-style-type: none"> a. Plant Pathology, Botany, & Diseases of Miscellaneous Crops b. Diseases of Field Crops c. Diseases of Fruit Crops d. Diseases of Vegetable Crops
18	Plant Physiology & Nutrition	Plant Physiology & Nutrition
19	Poultry Industry	Poultry Industry
20	Rural Sociology	Rural Life Studies
21	Soils	<ul style="list-style-type: none"> a. Soil Chemistry & Microbiology b. Soil Fertility, Management & Soil-Plant Relationships c. Soil Physical Properties, Conservation & Classification
22	Vegetables	<ul style="list-style-type: none"> a. Vegetable Crops b. Potatoes
23	Veterinary Science	Veterinary Science
24	Weeds	Weed Control

